

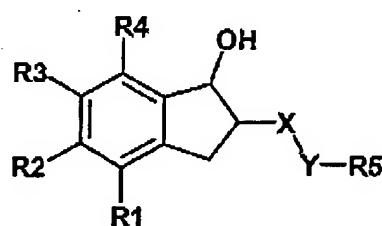
Application Ser. No.: 10/664,855  
 Filing Date: September 22, 2003  
 Examiner: Nwaonicha, Chukwuma O.

Amendment Pursuant to 37 C.F.R. § 1.121

IN THE CLAIMS:

The claims set forth below with amendments as indicated will replace all prior versions and listing of claims in the application.

1. (Currently amended) A compound of the formula I,



in which

A)

R1 to R4 are H;

X is S;

Y is  $(CH_2)_p$ , where p is 0, 1, 2 or 3;

R5 is  $CF_3$ ;  $(C_2-C_{18})$ -alkyl;  $(C_3-C_4)$ -cycloalkyl,  $(C_6-C_8)$ -cycloalkyl, wherein the alkyl or cycloalkyl groups in each case have zero to seven hydrogen atoms replaced by fluorine;

$(CH_2)_rCOR_6$ , where r is 1-6 and R6 is OH, O- $(C_1-C_6)$ -alkyl or  $NH_2$ ;

$CH_2-CH(NHR_7)-COR_8$ , where R7 is H,  $C(O)-(C_1-C_4)$ -alkyl or  $C(O)O-(C_1-C_4)$ -alkyl and R8 is OH, O- $(C_1-C_6)$ -alkyl or  $NH_2$ ;

Application Ser. No.: 10/664,855  
Filing Date: September 22, 2003  
Examiner: Nwaonicha, Chukwuma O.

phenyl, 1- or 2-naphthyl, or biphenyl radical, where the rings or ring systems are unsubstituted or substituted one or two times by F, Cl, Br, I, CN, O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, O-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, S(O)<sub>0-2</sub>(C<sub>1</sub>-C<sub>8</sub>)-alkyl, S(O)<sub>0-2</sub>(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>, N[(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl]<sub>2</sub>, NH-CO-(C<sub>2</sub>-C<sub>8</sub>)-alkyl, NH-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; SO<sub>3</sub>H; SO<sub>2</sub>-NH<sub>2</sub>, SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, SO<sub>2</sub>-NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; NH-SO<sub>2</sub>-NH<sub>2</sub>; NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-SO<sub>2</sub>-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; O-CH<sub>2</sub>-COOH, O-CH<sub>2</sub>-CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, COOH, CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-O-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, CO-NH<sub>2</sub>, CO-NH(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>; (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, wherein the alkyl or cycloalkyl groups in each case have zero to seven hydrogen atoms independently replaced by fluorine;

with the proviso that R5 is not unsubstituted phenyl, 4-fluorophenyl, 4-bromophenyl, 4-chlorophenyl, 3-methylphenyl, 4-methylphenyl, 4-methoxyphenyl, 4-n-butylphenyl, 4-t-butylphenyl, 2-aminophenyl or C<sub>12</sub>-alkyl; and  
wherein at least one of the radicals R1, R2, R3 and R4 is different from hydrogen;

or

B)

R1, R4 independently of one another are

H; F, Cl, Br, I; CN; N<sub>3</sub>, NO<sub>2</sub>, OH, O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O(C<sub>3</sub>-C<sub>4</sub> and C<sub>8</sub>-C<sub>8</sub>)-cycloalkyl, O-CH<sub>2</sub>-phenyl, O-phenyl, O-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, S(O)<sub>0-2</sub>(C<sub>1</sub>-C<sub>8</sub>)-alkyl, S(O)<sub>0-2</sub>(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>,

Application Ser. No.: 10/664,855  
 Filing Date: September 22, 2003  
 Examiner: Nwaonicha, Chukwuma O.

$N[(C_3-C_8)\text{-cycloalkyl}]_2$ ,  $NH\text{-CO-(}C_1-C_8\text{)}\text{-alkyl}$ ,  $NH\text{-CO-(}C_3-C_8\text{)}\text{-cycloalkyl}$ ;  $SO_3H$ ;  $SO_2\text{-NH}_2$ ,  $SO_2\text{-NH-(}C_1-C_8\text{)}\text{-alkyl}$ ,  $SO_2\text{-NH-(}C_3-C_8\text{)}\text{-cycloalkyl}$ ;  $NH\text{-}SO_2\text{-NH}_2$ ,  $NH\text{-}SO_2\text{-}(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $NH\text{-}SO_2\text{-}(\text{C}_3\text{-C}_8)\text{-cycloalkyl}$ ;  $O\text{-}CH_2\text{-COOH}$ ,  $O\text{-}CH_2\text{-CO-O}(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $COOH$ ,  $CO\text{-}O(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $CO\text{-O-(}C_3\text{-C}_8\text{)}\text{-cycloalkyl}$ ,  $CO\text{-NH}_2$ ,  $CO\text{-NH}(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $CO\text{-N}[(\text{C}_1\text{-C}_8)\text{-alkyl}]_2$ ,  $(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $(\text{C}_3\text{-C}_8)\text{-cycloalkyl}$ ,  $(\text{C}_2\text{-C}_8)\text{-alkenyl}$ ,  $(\text{C}_2\text{-C}_8)\text{-alkynyl}$ , where in the alkyl, cycloalkyl, alkenyl and alkynyl groups in each case have zero to seven hydrogen atoms replaced by fluorine, or one hydrogen replaced by  $OH$ ,  $OC(O)CH_3$ ,  $O\text{-}CH_2\text{-Ph}$ ,  $NH_2$ ,  $NH\text{-CO-}CH_3$  or  $N(COOCH_2Ph)_2$ ; or phenyl, or 1- or 2-naphthyl,  
 where in each case the aryl radical is unsubstituted or substituted one or two times by  
 $F$ ,  $Cl$ ,  $Br$ ,  $CN$ ,  $OH$ ,  $(\text{C}_1\text{-C}_4)\text{-alkyl}$ ,  $CF_3$ ,  $O\text{-}(\text{C}_1\text{-C}_4)\text{-alkyl}$ ,  $S(O)_{0-2}(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $NH_2$ ,  $NH\text{-}SO_2\text{-}(\text{C}_1\text{-C}_4)\text{-alkyl}$ ,  $COOH$ ,  $CO\text{-O-(}C_1\text{-C}_4)\text{-alkyl}$  or  $CO\text{-NH}_2$  and wherein the alkyl groups in each case have zero to seven hydrogen atoms may be replaced by fluorine;

R2, R3 independently of one another are

$H$ ,  $F$ ,  $Cl$ ,  $Br$ ,  $I$ ,  $CN$ ,  $N_3$ ,  $NO_2$ ,  $O(C_1\text{-C}_8)\text{-alkyl}$ ,  $O(C_3\text{-C}_8)\text{-cycloalkyl}$ ,  $O\text{-}CO-(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $O\text{-CO-(}C_3\text{-C}_8\text{)}\text{-cycloalkyl}$ ,  $S(O)_{0-2}(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $S(O)_{0-2}(\text{C}_3\text{-C}_8)\text{-cycloalkyl}$ ,  $NH_2$ ,  $NH\text{-}(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $NH\text{-}(\text{C}_3\text{-C}_8)\text{-cycloalkyl}$ ,  $N[(\text{C}_1\text{-C}_8)\text{-alkyl}]_2$ ,  $N[(\text{C}_3\text{-C}_8)\text{-cycloalkyl}]_2$ ,  $NH\text{-CO-(}C_1\text{-C}_8\text{)}\text{-alkyl}$ ,  $NH\text{-CO-(}C_3\text{-C}_8\text{)}\text{-cycloalkyl}$ ,  $SO_3H$ ;  $SO_2\text{-NH}_2$ ,  $SO_2\text{-NH-(}C_5\text{-C}_8\text{)}\text{-alkyl}$ ,  $SO_2\text{-NH-(}C_3\text{-C}_8\text{)}\text{-cycloalkyl}$ ,  $NH\text{-}SO_2\text{-NH}_2$ ,  $NH\text{-}SO_2\text{-}(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $NH\text{-}SO_2\text{-}(\text{C}_5\text{-C}_8)\text{-cycloalkyl}$ ,  $O\text{-}CH_2\text{-COOH}$ ,  $O\text{-}CH_2\text{-CO-O}(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $CO\text{-O-(}C_3\text{-C}_8\text{)}\text{-cycloalkyl}$ ,  $CO\text{-NH}_2$ ,  $CO\text{-NH}(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $CO\text{-N}[(\text{C}_1\text{-C}_8)\text{-alkyl}]_2$ ,  $(\text{C}_1\text{-C}_8)\text{-alkyl}$ ,  $(\text{C}_3\text{-C}_8)\text{-cycloalkyl}$ ,  $(\text{C}_2\text{-C}_8)\text{-alkenyl}$ ,  $(\text{C}_2\text{-C}_8)\text{-alkynyl}$ , where in the alkyl,

Application Ser. No.: 10/664,855  
Filing Date: September 22, 2003  
Examiner: Nwaonicha, Chukwuma O.

cycloalkyl, alkenyl and alkynyl groups in each case have zero to seven hydrogen atoms replaced by fluorine; or one hydrogen replaced by OH, OC(O)CH<sub>3</sub>, O-CH<sub>2</sub>-Ph, NH<sub>2</sub>, NH-CO-CH<sub>3</sub> or N(COOC<sub>2</sub>Ph)<sub>2</sub>; or phenyl, or 1- or 2-naphthyl, and wherein the alkyl groups in each case have zero to seven hydrogen atoms replaced by fluorine;

or R2 and R3 together form the group -O-CH<sub>2</sub>-O-; where in each case at least one of the radicals R1, R2, R3 and R4 is different from hydrogen;

X is S;

Y is (CH<sub>2</sub>)<sub>p</sub>, where p is 0, 1, 2 or 3;

R5 is (C<sub>1</sub>-C<sub>18</sub>)-alkyl; (C<sub>3</sub>-C<sub>4</sub>- and C<sub>6</sub>-C<sub>8</sub>)-cycloalkyl, wherein the alkyl and cycloalkyl groups in each case have zero to seven hydrogen atoms replaced by fluorine;

(CH<sub>2</sub>)<sub>r</sub>COR6, where r is 1-6 and R6 is OH, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or NH<sub>2</sub>;

CH<sub>2</sub>-CH(NHR7)-COR8, where R7 is H, C(O)-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or C(O)O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl and R8 is OH, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or NH<sub>2</sub>;

phenyl, 1- or 2-naphthyl, or biphenyl, where the rings or ring systems are unsubstituted or substituted one or two times by F, Cl, Br, I, CN, O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, O-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, S(O)<sub>0-2</sub>(C<sub>1</sub>-C<sub>8</sub>)-alkyl, S(O)<sub>0-2</sub>(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, N[(C<sub>1</sub>-C<sub>8</sub>)-

Application Ser. No.: 10/664,855  
Filing Date: September 22, 2003  
Examiner: Nwaonicha, Chukwuma O.

alkyl]<sub>2</sub>, N[(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl]<sub>2</sub>, NH-CO-(C<sub>2</sub>-C<sub>8</sub>)-alkyl, NH-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; SO<sub>3</sub>H; SO<sub>2</sub>-NH<sub>2</sub>, SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, SO<sub>2</sub>-NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; NH-SO<sub>2</sub>-NH<sub>2</sub>; NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-SO<sub>2</sub>-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; O-CH<sub>2</sub>-COOH, O-CH<sub>2</sub>-CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, COOH, CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-O-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, CO-NH<sub>2</sub>, CO-NH(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>; (C<sub>1</sub>-C<sub>8</sub>)-alkyl, or (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, where in the alkyl or cycloalkyl groups in each case have zero to seven hydrogen atoms replaced by fluorine;

or a physiologically tolerable salt thereof, in any stereoisomeric form, or a mixture of any such compounds in any ratio.

2. (Currently amended) The compound as claimed in claim 1, in which

R1, R4 independently of one another are

H, F, Cl, Br, I, CN, N<sub>3</sub>, NO<sub>2</sub>, OH, O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O(C<sub>3</sub>-C<sub>4</sub> and C<sub>6</sub>-C<sub>8</sub>)-cycloalkyl, O-CH<sub>2</sub>-phenyl, O-phenyl, O-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, S(O)<sub>0-2</sub>(C<sub>1</sub>-C<sub>8</sub>)-alkyl, S(O)<sub>0-2</sub>(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>, N[(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl]<sub>2</sub>, NH-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, SO<sub>3</sub>H, SO<sub>2</sub>-NH<sub>2</sub>, SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, SO<sub>2</sub>-NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH-SO<sub>2</sub>-NH<sub>2</sub>, NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-SO<sub>2</sub>-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, O-CH<sub>2</sub>-COOH, O-CH<sub>2</sub>-CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, COOH, CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-O-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, CO-NH<sub>2</sub>, CO-NH(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>, (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, (C<sub>2</sub>-C<sub>8</sub>)-alkenyl, or (C<sub>2</sub>-C<sub>8</sub>)-alkynyl, wherein the alkyl, cycloalkyl, alkenyl and alkynyl groups in each case have zero to seven hydrogen atoms replaced by fluorine, or one hydrogen replaced by OH, OC(O)CH<sub>3</sub>, O-CH<sub>2</sub>-Ph, NH<sub>2</sub>, NH-CO-CH<sub>3</sub> or N(COOCH<sub>2</sub>Ph)<sub>2</sub>; or phenyl, or 1- or 2-naphthyl,

Application Ser. No.: 10/664,855  
Filing Date: September 22, 2003  
Examiner: Nwaonicha, Chukwuma O.

where in each case the aryl radical is unsubstituted or substituted one or two times by  
F, Cl, Br, CN,  
OH, (C<sub>1</sub>-C<sub>4</sub>)-alkyl, CF<sub>3</sub>, O-(C<sub>1</sub>-C<sub>4</sub>)-alkyl,  
S(O)<sub>0-2</sub>(C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>, NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>4</sub>)-alkyl;  
COOH, CO-O-(C<sub>1</sub>-C<sub>4</sub>)-alkyl, CO-NH<sub>2</sub> and wherein in the alkyl groups in each case have zero to seven hydrogen atoms replaced by fluorine;

R2, R3 independently of one another are  
H, F, Cl, Br, I, CN, N<sub>3</sub>, NO<sub>2</sub>, O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, O-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, S(O)<sub>0-2</sub>(C<sub>1</sub>-C<sub>8</sub>)-alkyl, S(O)<sub>0-2</sub>(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>, N[(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl]<sub>2</sub>, NH-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, SO<sub>3</sub>H, SO<sub>2</sub>-NH<sub>2</sub>, SO<sub>2</sub>-NH-(C<sub>5</sub>-C<sub>8</sub>)-alkyl, SO<sub>2</sub>-NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH-SO<sub>2</sub>-NH<sub>2</sub>, NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-SO<sub>2</sub>-(C<sub>5</sub>-C<sub>8</sub>)-cycloalkyl, O-CH<sub>2</sub>-COOH, O-CH<sub>2</sub>-CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, COOH, CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-O-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, CO-NH<sub>2</sub>, CO-NH(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>, (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, (C<sub>2</sub>-C<sub>8</sub>)-alkenyl, (C<sub>2</sub>-C<sub>8</sub>)-alkynyl, where in the alkyl, alkenyl, cycloalkyl and alkynyl groups in each case have zero to seven hydrogen atoms replaced by fluorine; or one hydrogen replaced by OH, OC(O)CH<sub>3</sub>, O-CH<sub>2</sub>-Ph, NH<sub>2</sub>, NH-CO-CH<sub>3</sub> or N(COOC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>; or phenyl, or 1- or 2-naphthyl, wherein the alkyl groups in each case have zero to seven hydrogen atoms replaced by fluorine;

or R2 and R3 together form the group -O-CH<sub>2</sub>-O-;

Application Ser. No.: 10/664,855  
Filing Date: September 22, 2003  
Examiner: Nwaonicha, Chukwuma O.

where in each case at least one of the radicals R1, R2, R3 and R4 is different from hydrogen;

X is S;

Y is  $(CH_2)_p$ , where p is 0, 1, 2 or 3;

R5 is  $(C_1-C_{18})$ -alkyl;  $(C_3-C_4)$ - and  $C_6-C_8$ -cycloalkyl, wherein the alkyl or cycloalkyl groups in each case have zero to seven hydrogen atoms replaced by fluorine;

$(CH_2)_r-COR_6$ , where r is 1-6 and R6 is OH, O- $(C_1-C_6)$ -alkyl or  $NH_2$ ;

$CH_2-CH(NHR_7)-COR_8$ , where R7 is H,  $C(O)-(C_1-C_6)$ -alkyl or  $C(O)O-(C_1-C_6)$ -alkyl and R8 is OH, O- $(C_1-C_6)$ -alkyl or  $NH_2$ ;

phenyl, 1- or 2-naphthyl, or biphenyl, where the rings or ring systems can be are unsubstituted or substituted up to one or two times by F, Cl, Br, I, CN,

$O(C_1-C_6)$ -alkyl,  $O(C_3-C_8)$ -cycloalkyl,  $O-CO-(C_1-C_6)$ -alkyl,  $O-CO-(C_3-C_8)$ -cycloalkyl,  $S(O)_{0-2}(C_1-C_6)$ -alkyl,  $S(O)_{0-2}(C_3-C_8)$ -cycloalkyl,  $NH_2$ ,  $NH-(C_1-C_6)$ -alkyl,  $NH-(C_3-C_8)$ -cycloalkyl,  $N[(C_1-C_6)-alkyl]_2$ ,  $N[(C_3-C_8)-cycloalkyl]_2$ ,  $NH-CO-(C_2-C_8)$ -alkyl,  $NH-CO-(C_3-C_8)$ -cycloalkyl;  $SO_3H$ ;  $SO_2-NH_2$ ,  $SO_2-NH-(C_1-C_6)$ -alkyl,  $SO_2-NH-(C_3-C_8)$ -cycloalkyl;  $NH-SO_2-(C_1-C_6)$ -alkyl,  $NH-SO_2-(C_3-C_8)$ -cycloalkyl;  $O-CH_2-COOH$ ,  $O-CH_2-CO-O(C_1-C_6)$ -alkyl,  $COOH$ ,  $CO-O(C_1-C_6)$ -alkyl,  $CO-O-(C_3-C_8)$ -cycloalkyl,  $CO-NH_2$ ,  $CO-NH(C_1-C_6)$ -alkyl,  $CO-N[(C_1-C_6)-alkyl]_2$ ;  $(C_1-C_6)$ -alkyl, or  $(C_3-C_8)$ -cycloalkyl, wherein the alkyl or cycloalkyl groups in each case have zero to seven hydrogen atoms replaced by fluorine;

Application Ser. No.: 10/664,855  
Filing Date: September 22, 2003  
Examiner: Nwaonicha, Chukwuma O.

or a physiologically tolerable salt thereof, in any stereoisomeric form, or a mixture of any such compounds in any ratio.

3. (Currently amended) The compound as claimed in claim 1, in which

R1, R4 independently of one another are H, F, Cl, or Br;

R2, R3 independently of one another are

H, F, Cl, Br, CN, CONH<sub>2</sub>, NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, COOH, (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>1</sub>-C<sub>8</sub>)-alkenyl, (C<sub>1</sub>-C<sub>8</sub>)-alkynyl, wherein the alkyl, alkenyl and alkynyl groups in each case have zero to seven hydrogen atoms replaced by fluorine; or

phenyl; where the rings may be phenyl is unsubstituted or substituted up to one or two times by F, Cl, Br, CN, OH, (C<sub>1</sub>-C<sub>4</sub>)-alkyl, CF<sub>3</sub>, O-(C<sub>1</sub>-C<sub>4</sub>)-alkyl, wherein the alkyl groups in each case have zero to seven hydrogen atoms replaced by fluorine;

where in each case at least one of the radicals R1, R2, R3 and R4 is different from hydrogen;

X is S;

Y is (CH<sub>2</sub>)<sub>p</sub>, where p is 0 or 1;

R5 is (C<sub>1</sub>-C<sub>18</sub>)-alkyl; (C<sub>3</sub>-C<sub>4</sub>- and C<sub>6</sub>-C<sub>8</sub>)-cycloalkyl, where in the alkyl and cycloalkyl groups in each case have zero to seven hydrogen atoms replaced by fluorine;

Application Ser. No.: 10/664,855  
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$(CH_2)_r-CO-O-(C_1-C_6)$ -alkyl, where r is 1-6;

$CH_2-CH(NHR7)-COR8$ , where R7 is H,  $C(O)-(C_1-C_4)$ -alkyl or  $C(O)O-(C_1-C_4)$ -alkyl and R8 is OH,  $O-(C_1-C_6)$ -alkyl or  $NH_2$ ; or

phenyl;

or a physiologically tolerable salt thereof, in any stereoisomeric form, or a mixture of any such compounds in any ratio.

4. (Cancelled)

5. (Currently amended) The compound as claimed in claim 1, in which

R1 is H,

R2 is Cl,

R3 is H,

R4 is H,

R5 is  $CH_3$ ,

X is S, and

Y is  $(CH_2)_p$  where p is 0

or a physiologically tolerable salt thereof, in any stereoisomeric form, or a mixture of any such compounds in any ratio.

6. - 29. (Cancelled)